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(21) Application number : 09-350362 (71) Applicant : NIPPON NSC LTD
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(54) URETHANE COATING AGENT COMPOSITION, URETHANE COATING AGENT, AND URETHANE-COATED ROLLER

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a composition useful for obtaining a urethane-coated roller having a flexible surface chargeability, and conveying performances by making the composition have a polyurethane resin having functional groups hydrolyzable into silanol groups and having a specified content of soft segments as the principal component.

SOLUTION: This composition mainly consists of a polyurethane resin having functional groups hydrolyzable into silanol groups and having a content of soft segments of 50-80 wt. %. The composition can be obtained by polymerizing a polyurethane prepolymer obtained from a polyol (e.g. pivoxytetramethylene glycol) having a molecular weight of, desirably, 400-25,000, more desirably, 600-20,000 and a polyisocyanate (e.g. isophorone diisocyanate) with a silane compound having at least one isocyanate-reactive group and at least one hydrolyzable silyl group (e.g. aminoalkylalkoxysilane or the like) to form a polyurethane resin.

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